

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P856057

Luminaire Tested: **FFX-CLB-90-722-U-FR-T5**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856057
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-90-722-U-FR-T5
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

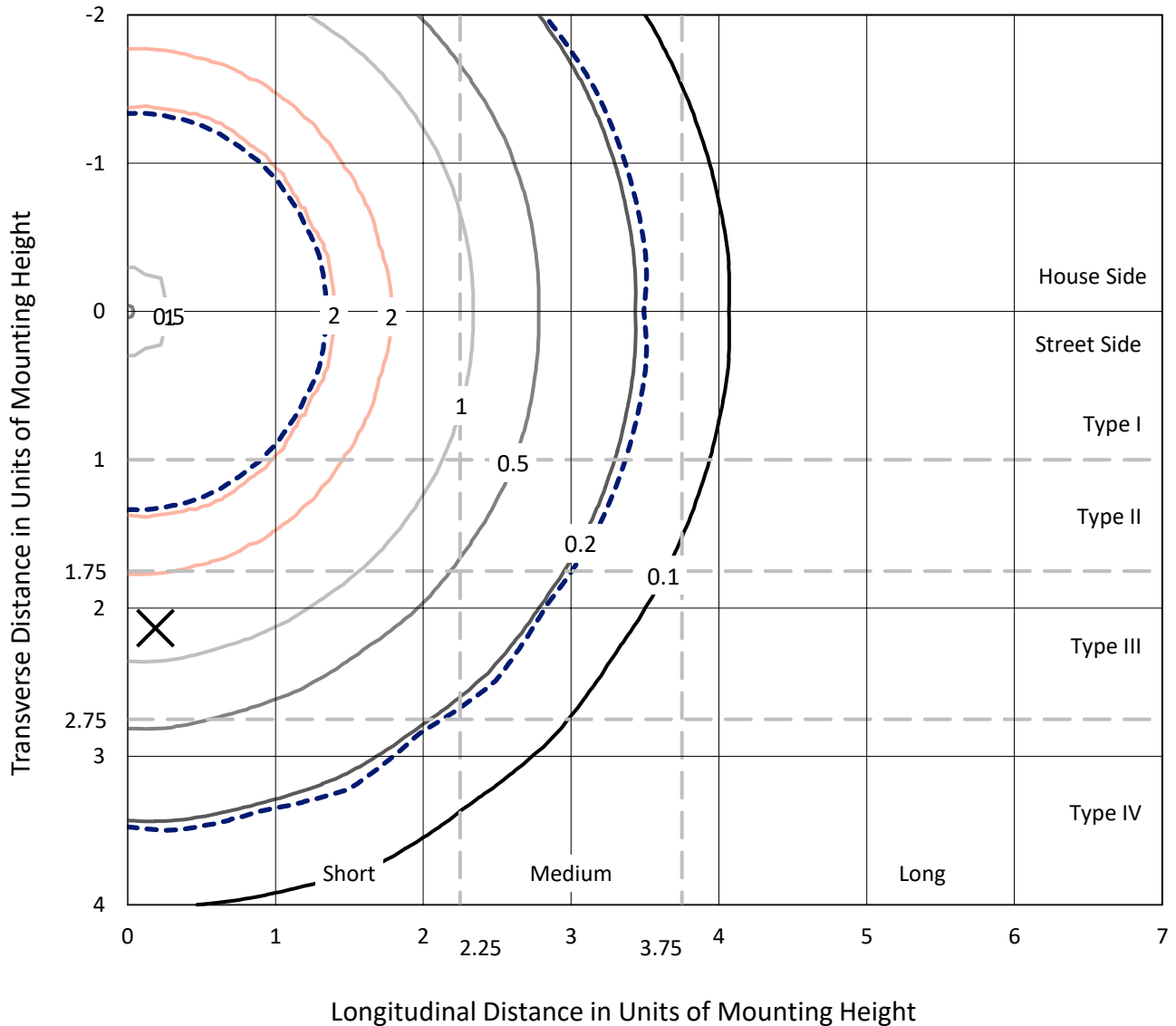
Lumens per Lamp: N/A
Luminaire Lumens: 12320.2 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

Input Watts (W): 90.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.6%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P856057
 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

Iso-Footcandle Lines of Horizontal Illumination

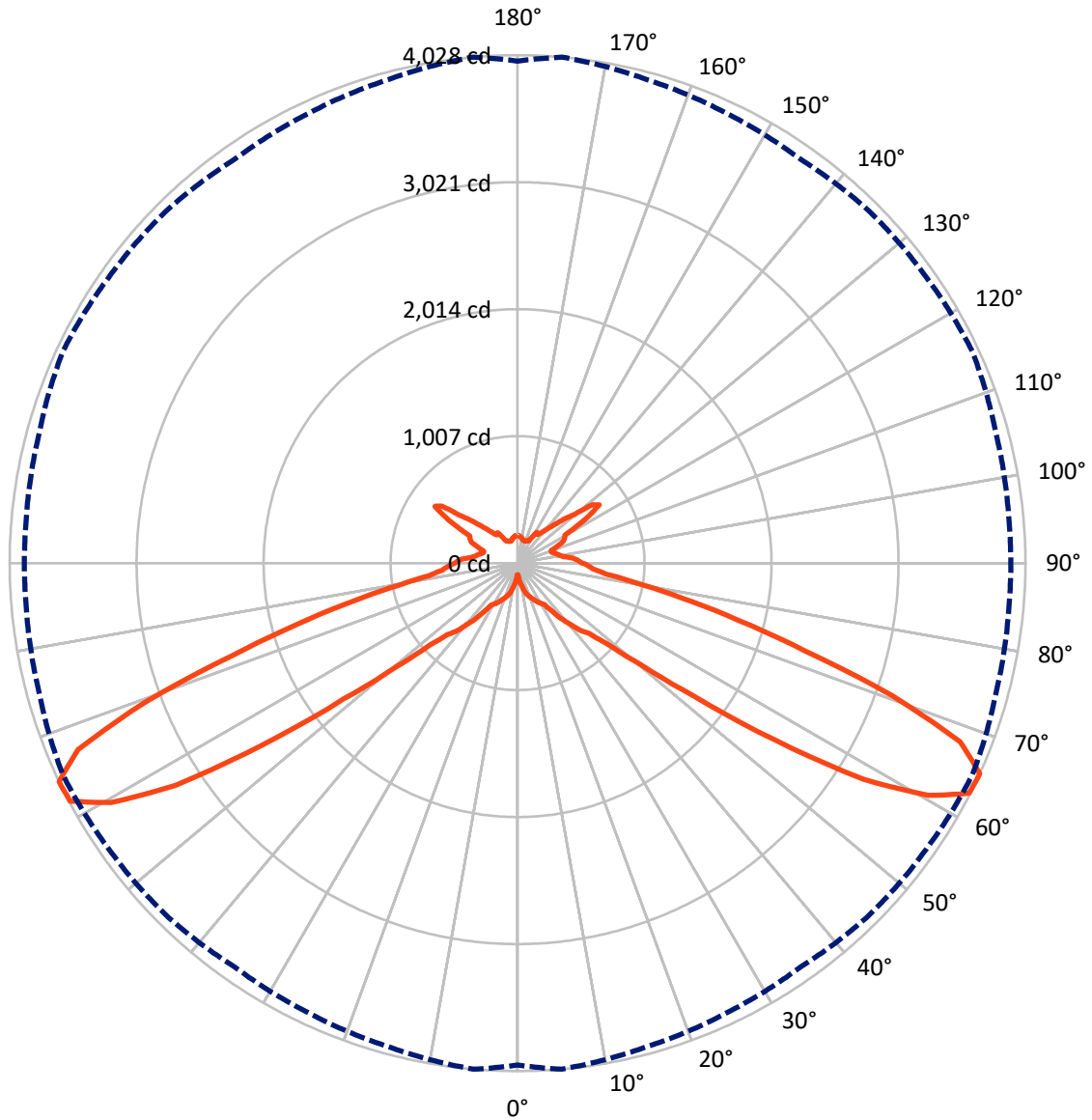
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P856057
CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P856057
 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

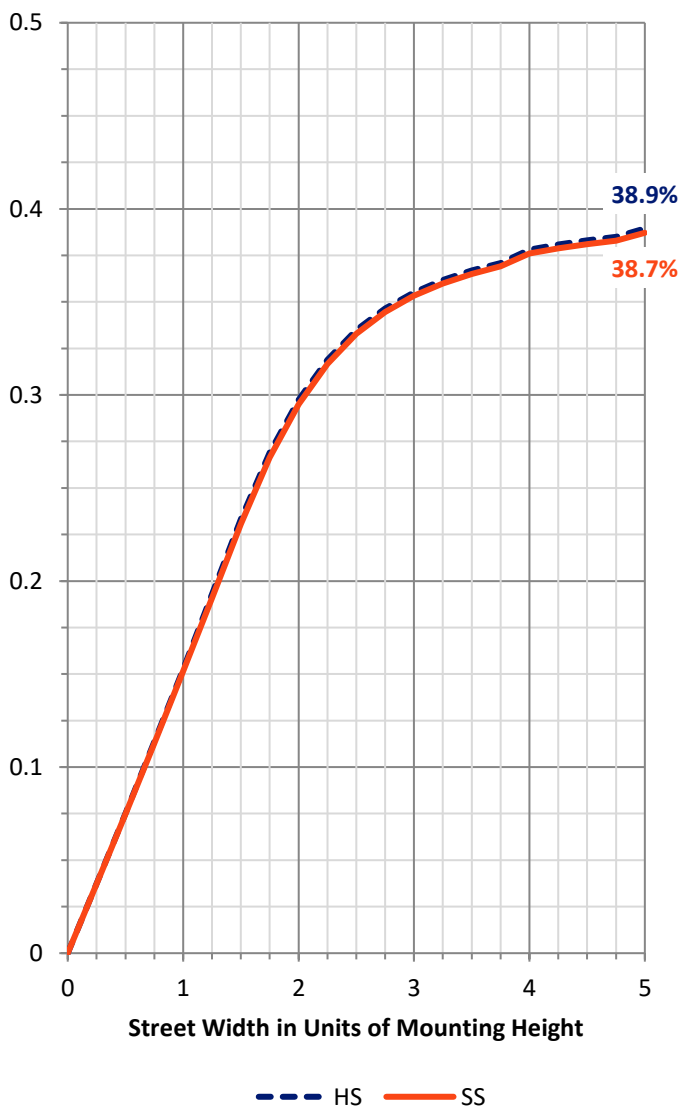
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4964.5	1195.6	6160.1
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	4964.5	1195.6	6160.1
	% Fixture	40.3	9.7	50.0
Total	Lumens	9929.0	2391.2	12320.2
	% Fixture	80.6	19.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.1
10°-20°	70.4	0.6
20°-30°	152.9	1.2
30°-40°	303.4	2.5
40°-50°	657.9	5.3
50°-60°	2265.9	18.4
60°-70°	3721.4	30.2
70°-80°	1997.3	16.2
80°-90°	745.9	6.1
90°-100°	471.1	3.8
100°-110°	315.5	2.6
110°-120°	346.8	2.8
120°-130°	573.8	4.7
130°-140°	337.9	2.7
140°-150°	178.8	1.5
150°-160°	93.9	0.8
160°-170°	53.3	0.4
170°-180°	20.1	0.2
0°-90°	9929.0	80.6
0°-180°	12320.2	100.0



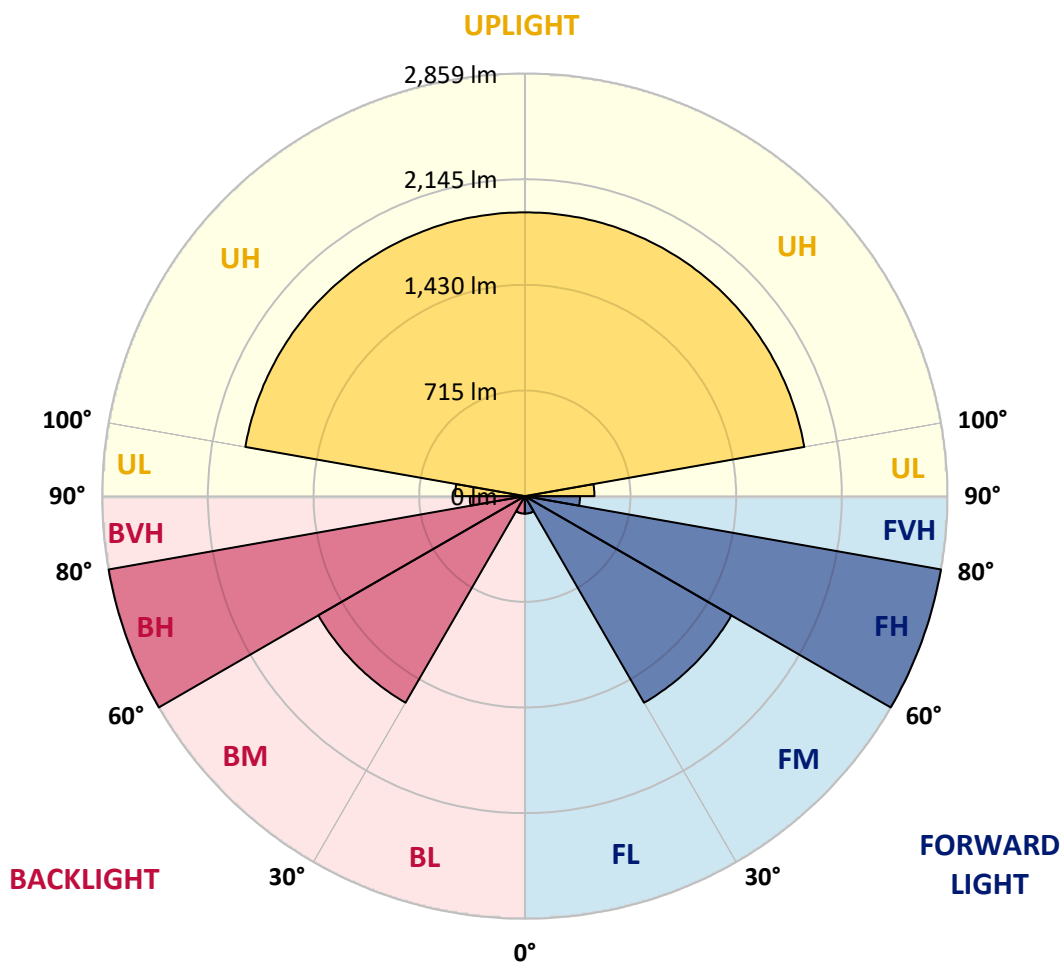
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 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.6	1.0			
FM (30°-60°)	1613.6	13.1			
FH (60°-80°)	2859.4	23.2			G2/5000
FVH (80°-90°)	372.9	3.0			G3/500
BL (0°-30°)	118.6	1.0	B1/500		
BM (30°-60°)	1613.6	13.1	B2/2500		
BH (60°-80°)	2859.4	23.2	B4/5000		G2/5000
BVH (80°-90°)	372.9	3.0			G3/500
UL (90°-100°)	471.1	3.8		U3/500	
UH (100°-180°)	1920.1	15.6		U5	

BUG Rating: B4-U5-G3

Type V Short





REPORT NUMBER: P856057

CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	96.7	96.7	95.4	94.2	95.4	96.7	96.7	97.9	95.4	95.4	96.7
5°	129.3	129.3	129.3	128.1	125.6	125.6	124.3	128.1	129.3	130.6	130.6
7.5°	160.7	159.5	162.0	163.2	157.0	154.5	154.5	155.7	158.2	160.7	163.2
10°	182.1	180.8	182.1	187.1	185.9	182.1	182.1	182.1	185.9	192.1	193.4
12.5°	214.7	214.7	217.2	221.0	222.3	218.5	216.0	216.0	221.0	222.3	221.0
15°	249.9	249.9	248.6	247.4	248.6	247.4	247.4	248.6	252.4	251.1	251.1
17.5°	268.7	267.5	266.2	267.5	267.5	266.2	267.5	270.0	268.7	272.5	273.8
20°	288.8	288.8	286.3	286.3	286.3	287.6	288.8	287.6	288.8	290.1	291.3
22.5°	307.7	307.7	306.4	305.1	306.4	307.7	308.9	306.4	306.4	308.9	308.9
25°	329.0	329.0	329.0	325.2	326.5	327.7	326.5	325.2	326.5	327.7	329.0
27.5°	352.9	352.9	350.4	346.6	347.8	347.8	349.1	346.6	349.1	349.1	349.1
30°	373.0	370.4	369.2	366.7	366.7	369.2	371.7	367.9	369.2	369.2	370.4
32.5°	391.8	391.8	390.5	385.5	384.3	391.8	394.3	393.0	388.0	389.3	390.5
35°	462.1	462.1	453.3	444.5	452.1	450.8	460.9	460.9	460.9	463.4	468.4
37.5°	550.0	553.8	567.6	587.7	587.7	558.8	543.7	542.5	562.6	580.2	578.9
40°	627.9	631.6	627.9	630.4	627.9	629.1	630.4	627.9	616.6	612.8	605.3
42.5°	724.6	725.8	702.0	674.3	676.8	690.7	707.0	708.2	684.4	673.1	670.6
45°	792.4	794.9	786.1	782.3	782.3	787.4	786.1	786.1	777.3	776.1	773.5
47.5°	958.1	953.1	935.5	929.3	936.8	933.0	956.9	950.6	940.6	940.6	949.3
50°	1270.8	1265.8	1267.0	1260.8	1280.9	1252.0	1280.9	1273.3	1258.3	1265.8	1272.1
52.5°	1781.9	1750.5	1754.3	1741.7	1776.9	1750.5	1798.2	1792.0	1743.0	1764.3	1765.6
55°	2517.8	2477.6	2475.1	2390.9	2456.2	2465.0	2525.3	2540.4	2444.9	2446.2	2452.5
57.5°	3247.4	3234.8	3275.0	3222.2	3268.7	3247.4	3246.1	3273.7	3218.5	3226.0	3246.1
60°	3730.8	3740.9	3786.1	3799.9	3816.2	3786.1	3724.5	3737.1	3733.3	3797.4	3802.4
62.5°	3989.5	4019.6	3987.0	3977.0	3963.1	3974.4	3966.9	3974.4	3951.8	3982.0	3983.2
65°	3980.7	4028.4	3969.4	3933.0	3910.4	3945.6	3955.6	3978.2	3930.5	3911.7	3911.7
67.5°	3728.3	3786.1	3693.2	3689.4	3634.1	3693.2	3676.8	3694.4	3656.7	3630.4	3605.2
70°	3101.7	3154.4	3042.7	3056.5	2961.1	3057.7	3032.6	3065.3	3035.1	2983.7	2953.5
72.5°	2336.9	2383.4	2300.5	2321.9	2259.1	2331.9	2293.0	2348.2	2329.4	2306.8	2281.7
75°	1768.1	1804.5	1809.5	1881.1	1805.8	1840.9	1770.6	1803.3	1834.6	1861.0	1833.4
77.5°	1301.0	1326.1	1401.4	1480.5	1406.4	1431.6	1361.2	1392.6	1421.5	1466.7	1446.6
80°	919.2	948.1	1017.2	1076.2	1022.2	1044.8	999.6	1017.2	1039.8	1072.4	1051.1
82.5°	715.8	705.7	703.2	688.1	671.8	728.3	739.6	749.7	728.3	719.5	709.5
85°	600.2	602.8	617.8	636.7	636.7	637.9	626.6	631.6	640.4	656.8	658.0
87.5°	551.3	558.8	601.5	616.6	610.3	612.8	602.8	605.3	611.5	620.3	617.8
90°	486.0	504.8	545.0	560.1	550.0	555.0	550.0	553.8	548.8	551.3	546.2
92.5°	474.7	473.4	486.0	484.7	478.4	493.5	493.5	496.0	489.7	486.0	483.5
95°	439.5	437.0	435.7	439.5	425.7	437.0	434.5	439.5	437.0	437.0	432.0
97.5°	367.9	367.9	365.4	369.2	360.4	365.4	359.1	362.9	361.7	362.9	359.1
100°	339.1	339.1	336.5	336.5	332.8	334.0	331.5	331.5	330.3	329.0	329.0
102.5°	319.0	321.5	317.7	319.0	313.9	313.9	311.4	312.7	311.4	311.4	310.2
105°	300.1	301.4	298.9	298.9	295.1	293.8	291.3	292.6	293.8	291.3	291.3
107.5°	281.3	282.5	281.3	281.3	277.5	275.0	271.2	271.2	272.5	273.8	273.8
110°	288.8	285.1	281.3	278.8	283.8	276.3	273.8	272.5	273.8	277.5	278.8



REPORT NUMBER: P856057
 CATALOG NUMBER: FFX-CLB-90-722-U-FR-T5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	345.3	342.8	342.8	331.5	344.1	336.5	331.5	322.7	326.5	329.0	329.0
115°	400.6	401.8	386.8	381.7	374.2	373.0	376.7	366.7	365.4	366.7	364.2
117.5°	449.6	423.2	366.7	351.6	347.8	345.3	342.8	340.3	337.8	352.9	336.5
120°	481.0	435.7	394.3	385.5	406.9	376.7	356.6	352.9	360.4	386.8	383.0
122.5°	681.9	642.9	612.8	560.1	612.8	582.7	590.2	576.4	568.9	553.8	556.3
125°	797.4	796.1	782.3	772.3	784.8	773.5	761.0	756.0	748.4	752.2	745.9
127.5°	740.9	752.2	734.6	754.7	709.5	722.1	719.5	728.3	720.8	723.3	713.3
130°	586.4	595.2	578.9	568.9	548.8	571.4	572.6	586.4	571.4	551.3	548.8
132.5°	512.3	518.6	493.5	481.0	467.1	487.2	496.0	503.6	493.5	472.2	467.1
135°	435.7	438.3	420.7	423.2	414.4	414.4	413.1	416.9	421.9	418.2	415.7
137.5°	374.2	380.5	374.2	381.7	374.2	367.9	357.9	361.7	373.0	381.7	380.5
140°	324.0	330.3	331.5	339.1	324.0	326.5	320.2	322.7	329.0	337.8	341.6
142.5°	287.6	292.6	281.3	275.0	270.0	285.1	296.4	297.6	290.1	280.0	283.8
145°	280.0	275.0	280.0	275.0	280.0	277.5	278.8	277.5	277.5	277.5	277.5
147.5°	283.8	288.8	288.8	288.8	281.3	282.5	283.8	285.1	285.1	290.1	288.8
150°	236.1	242.4	241.1	247.4	236.1	238.6	239.8	242.4	243.6	244.9	246.1
152.5°	199.7	200.9	204.7	207.2	205.9	204.7	203.4	203.4	205.9	208.5	209.7
155°	194.6	194.6	198.4	202.2	198.4	198.4	197.2	197.2	198.4	202.2	202.2
157.5°	187.1	188.4	188.4	190.9	188.4	189.6	188.4	188.4	189.6	190.9	192.1
160°	183.3	184.6	184.6	184.6	184.6	184.6	184.6	184.6	184.6	185.9	185.9
162.5°	183.3	183.3	183.3	182.1	182.1	183.3	183.3	183.3	183.3	182.1	183.3
165°	187.1	185.9	184.6	183.3	184.6	187.1	188.4	188.4	187.1	184.6	185.9
167.5°	194.6	194.6	193.4	192.1	193.4	194.6	195.9	195.9	194.6	193.4	193.4
170°	202.2	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
172.5°	207.2	207.2	208.5	207.2	208.5	208.5	207.2	207.2	207.2	207.2	208.5
175°	214.7	214.7	214.7	214.7	216.0	216.0	216.0	216.0	216.0	216.0	216.0
177.5°	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8	219.8
180°	221.0	221.0	221.0	221.0	221.0	221.0	221.0	221.0	221.0	221.0	221.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

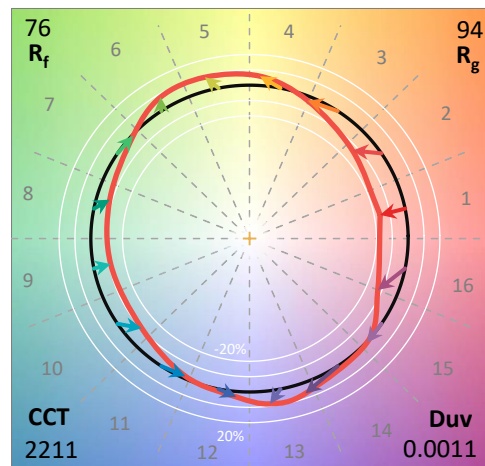
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

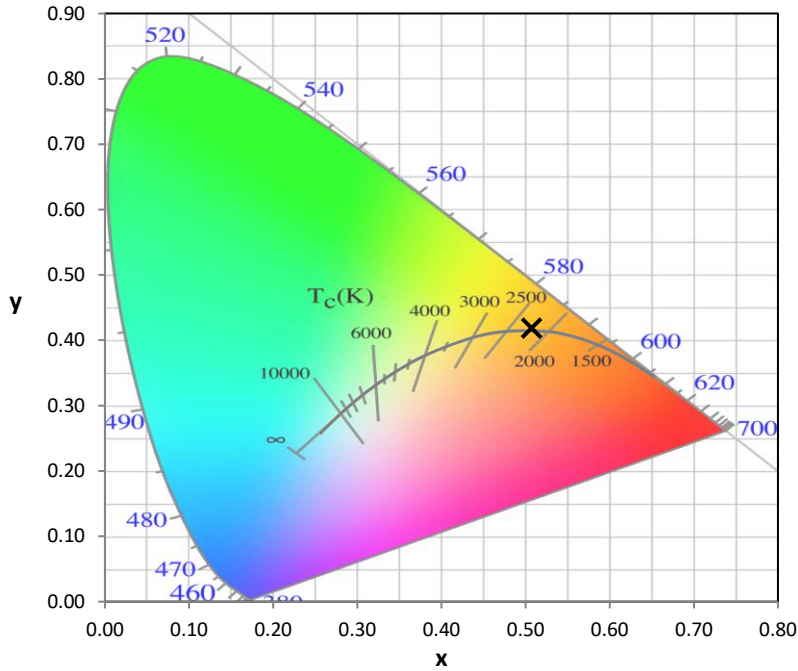
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

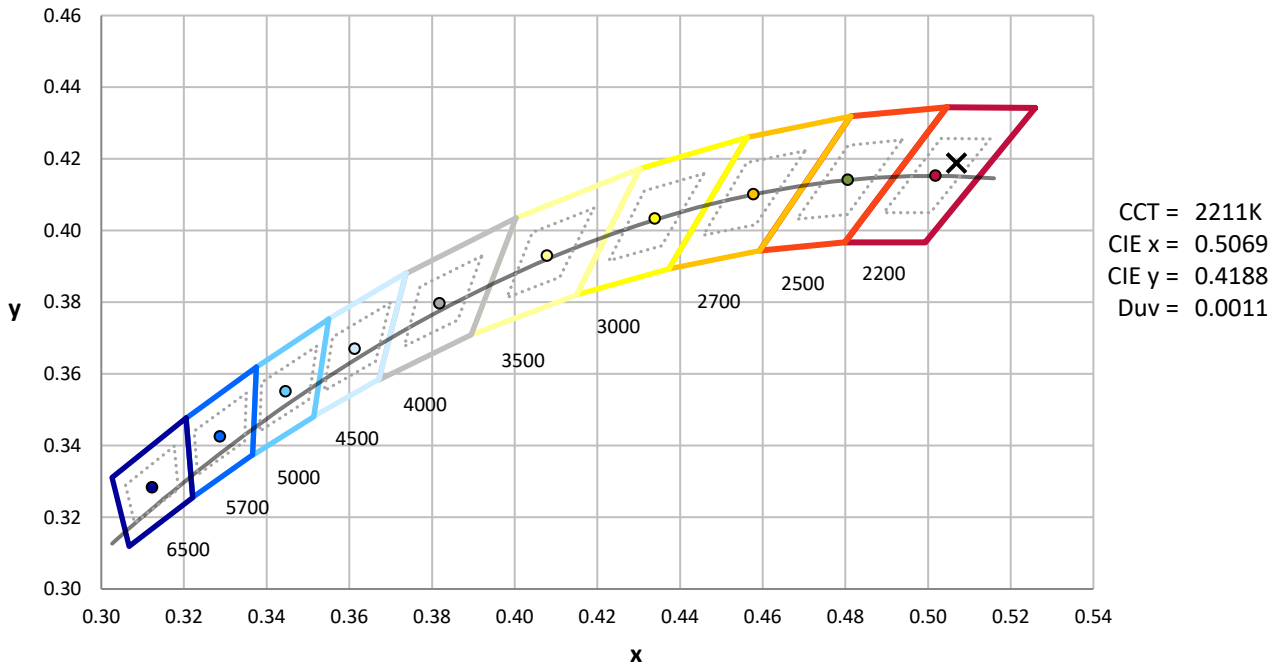
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2406-133-2

CIE 1931 Chromaticity Diagram



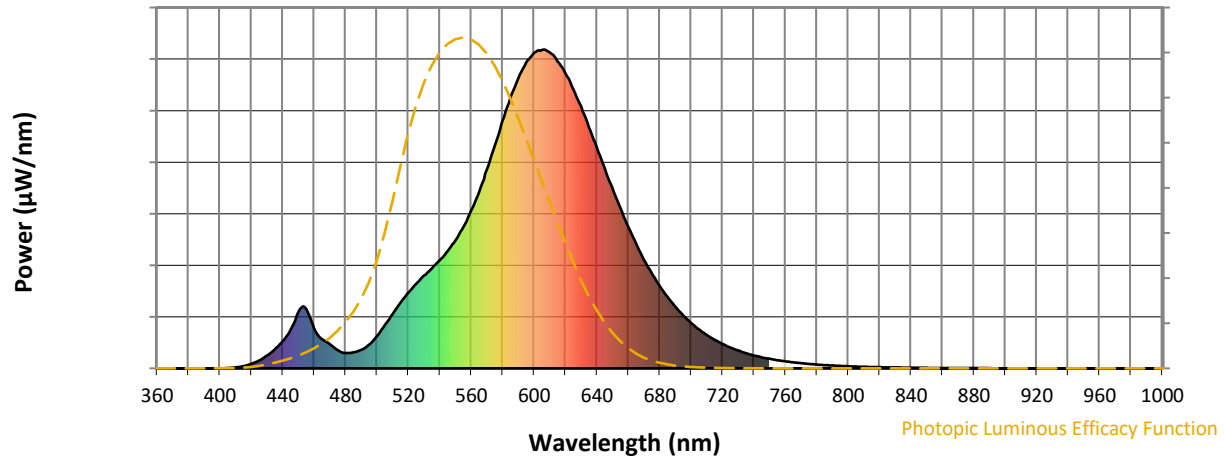
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-2

Photopic Flux vs. Wavelength

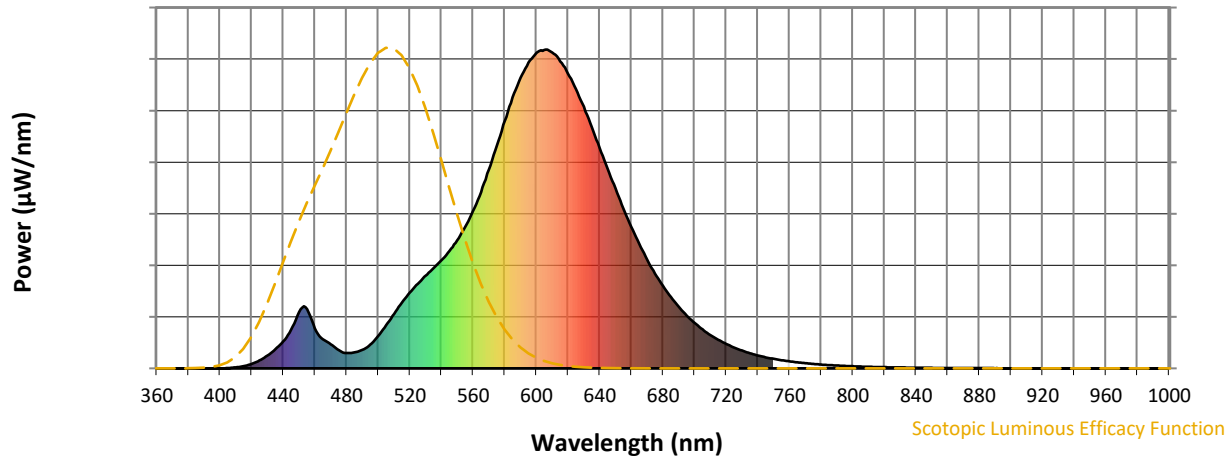


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Scotopic Flux vs. Wavelength



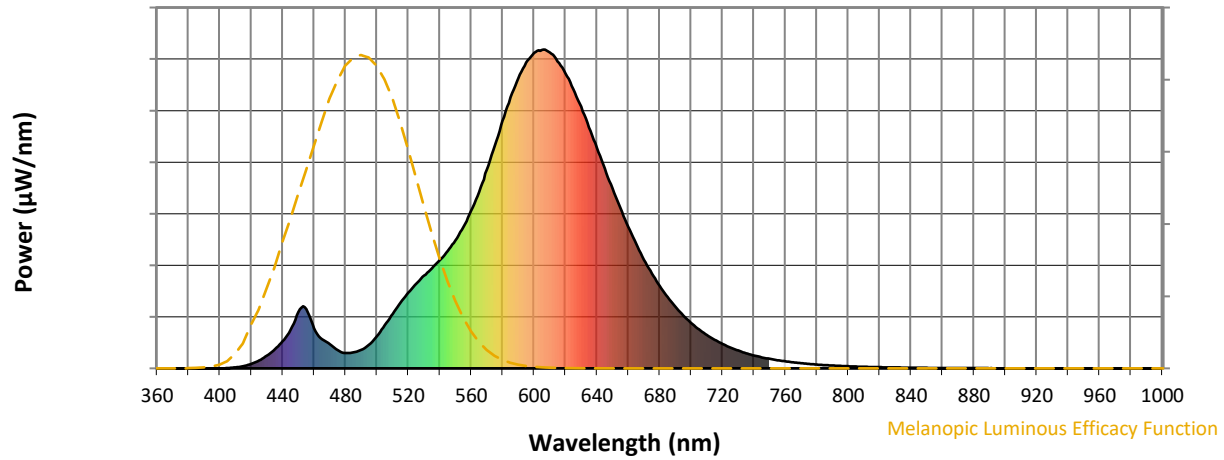
Scotopic Lumens: NR

S/P: 0.87

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

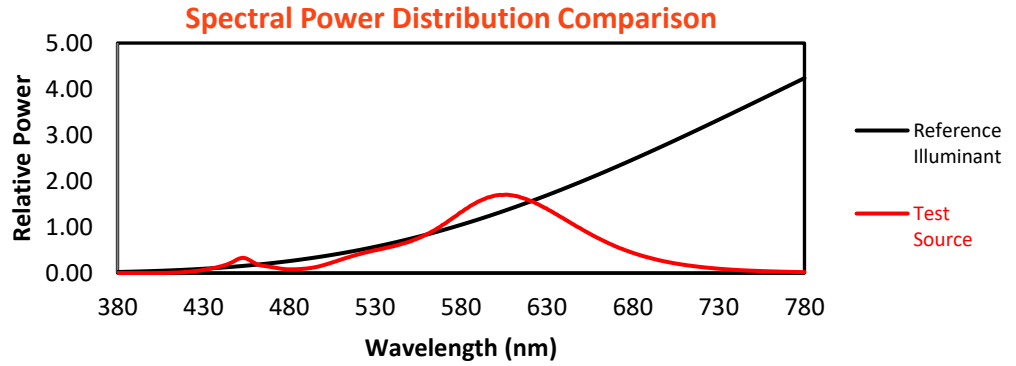
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-2

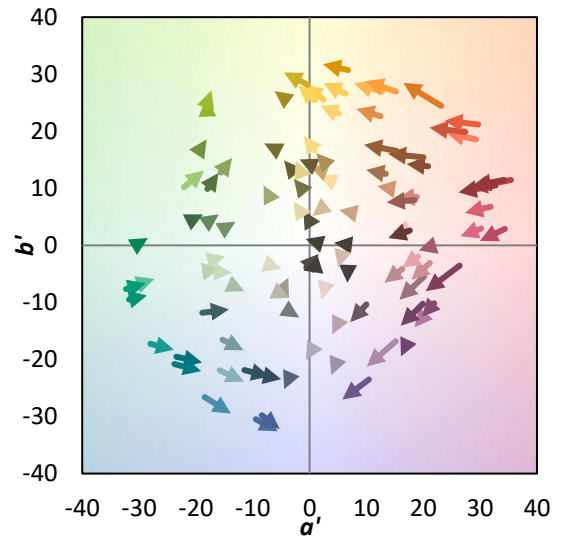
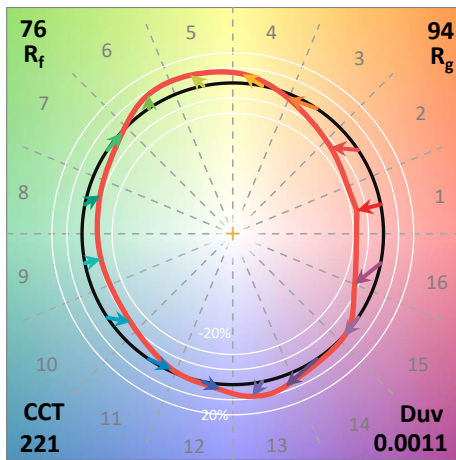
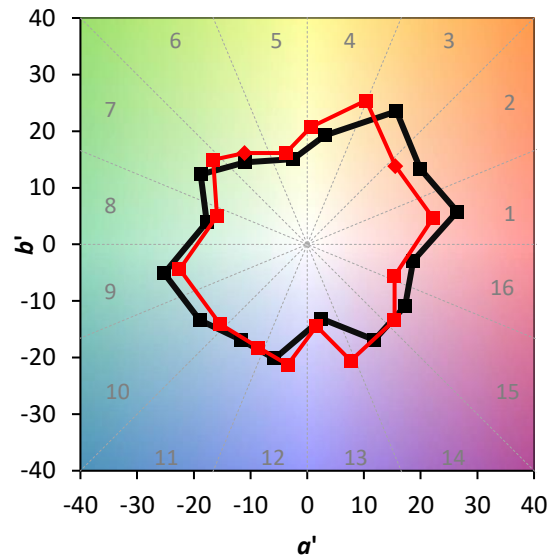
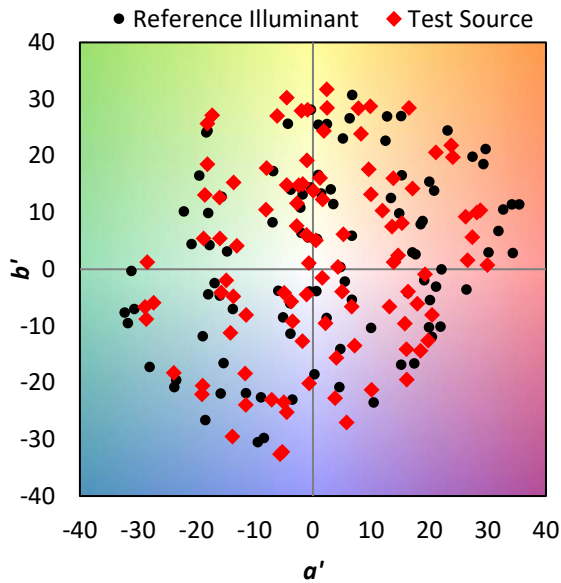
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_g = -29.2$



Color Vector Graphics

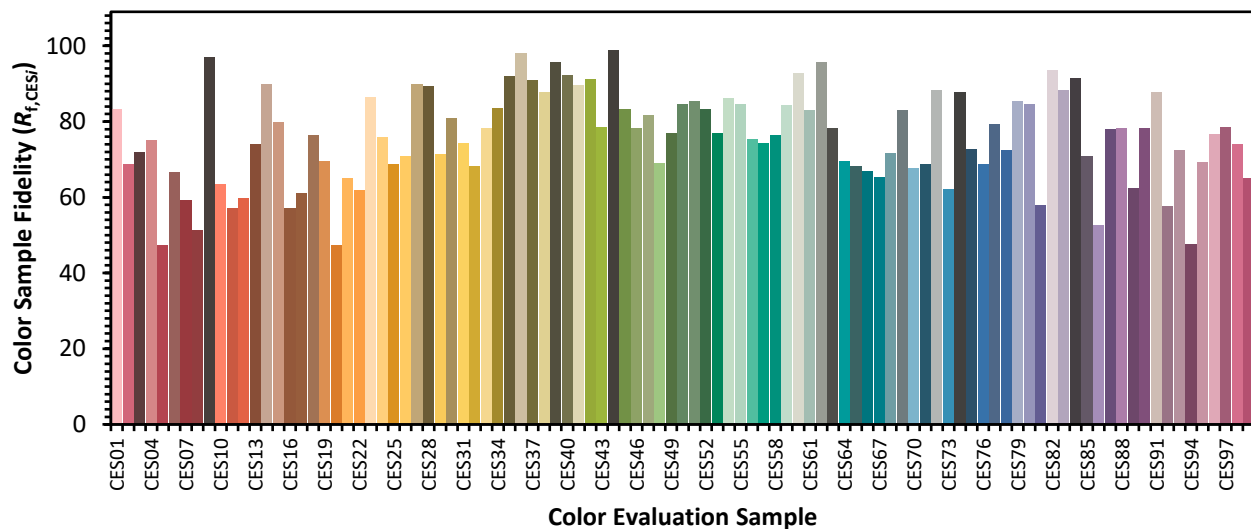


REPORT NUMBER: SP1-2406-133-2

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

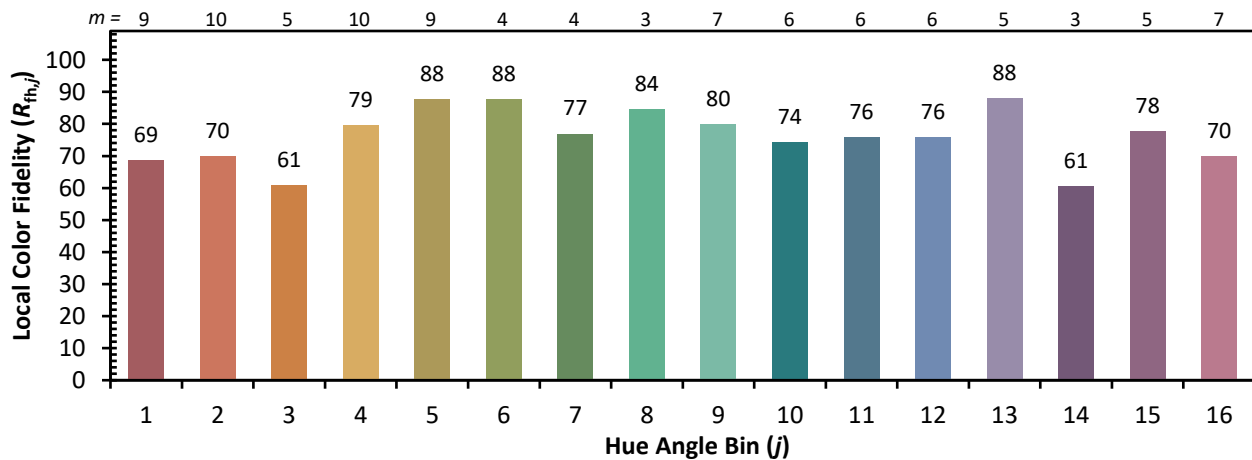
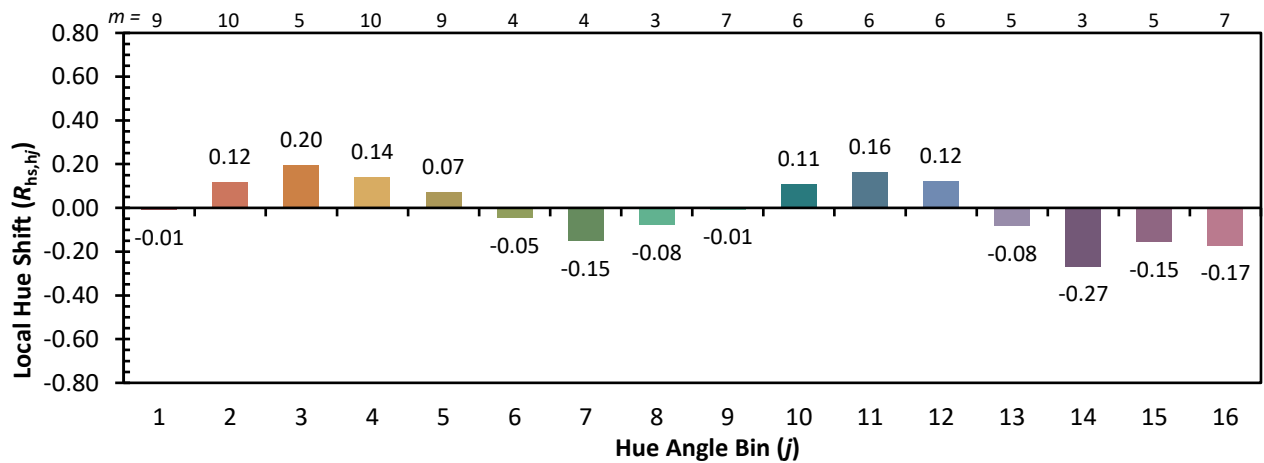
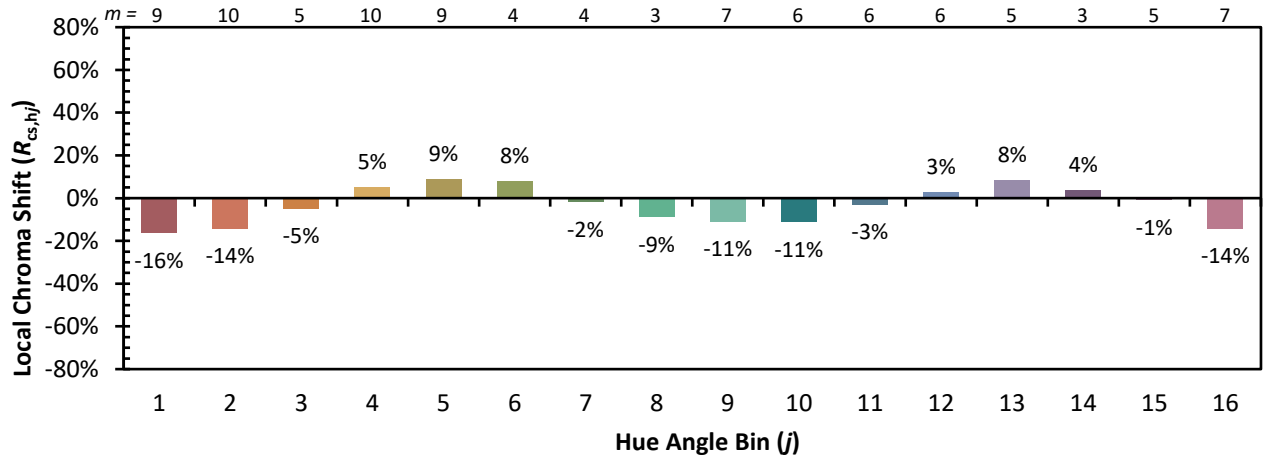
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



REPORT NUMBER: SP1-2406-133-2

TM-30-18

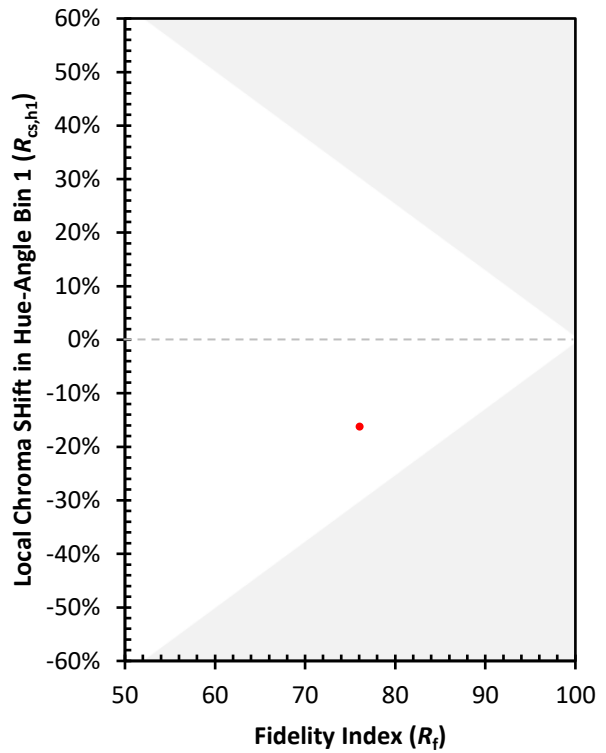
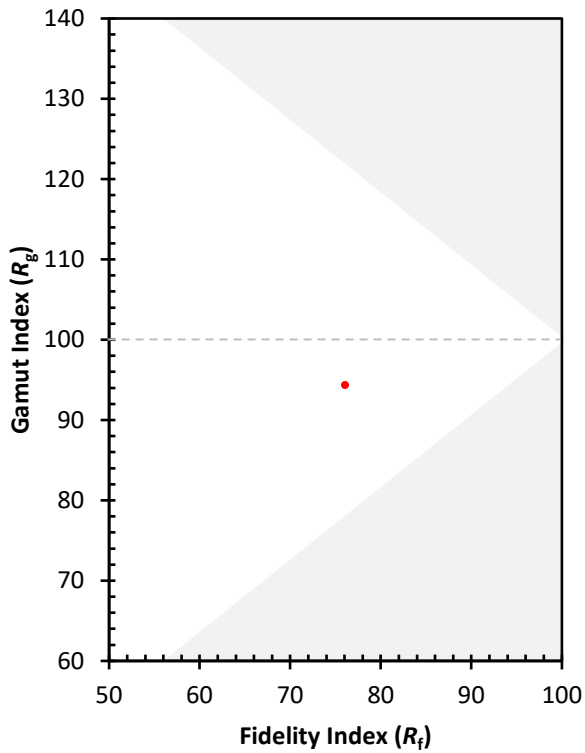
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-2

TM-30-18

Measure Comparisons



(END OF REPORT)